PEO EIS Contract Opportunities

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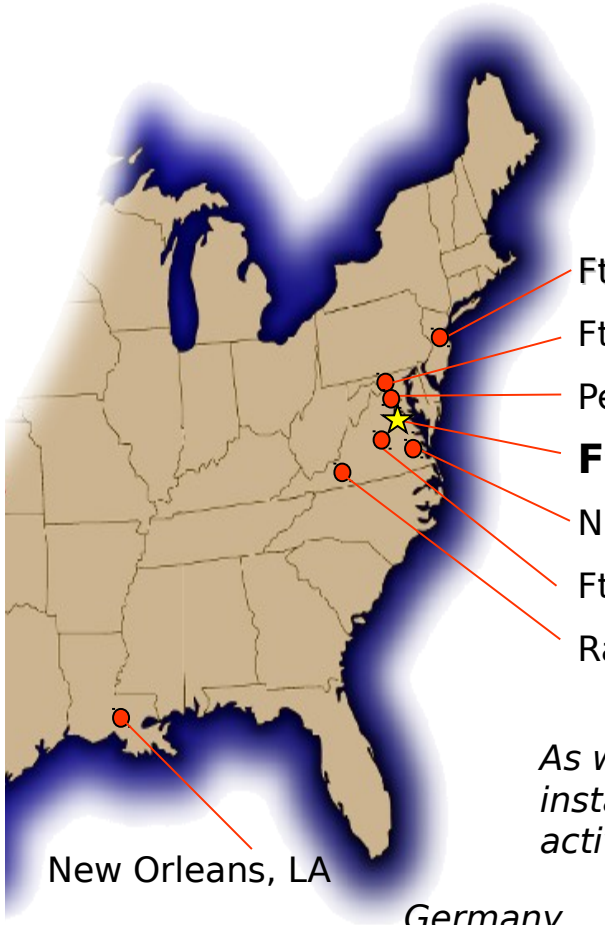
Outline

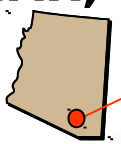
- PEO EIS Overview
- PM DCATS Mission
- Contract Opportunities
  - Modernization of Enterprise Terminal
  - Joint Network-Centric IP Modem System (JNIMS)
  - World Wide Satellite Systems Program
    - Joint Effort - PEO C3T/PM WIN-T & PEO EIS/PM DCATS

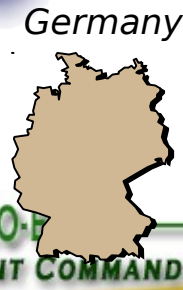
PEO EIS

- **PEO EIS is responsible for implementing the Army's enterprise infostructure, backbone communications, and business systems, which support Combatant Commanders and meet the Chief of Staff of the Army's vision.**
- **14 Project Offices**
- **1759 On-Hand Strength**
  - **602 Gov't, 479 Matrix, 679 Contractors**



As well as overseas installations and activities





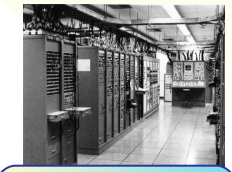
PEO Enterprise Information Systems

- Network-centric,knowledge-based business and combat service support solutions.
- Implement Army's Enterprise infostructure & business systems which support Combatant Commanders

- Key Mission Areas
  - Combat Service Support Logistics
    - Assets Management
    - Medical
    - Movement & Transportation
  - Personnel Management
  - Army Knowledge Management
  - Communications Support

Project Mgr, Defense Communications and Army Transmission Systems

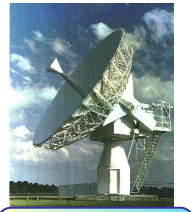
CAISI



Satellite Baseband Systems

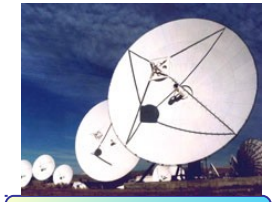
Technical Control Facilities

Command Center Upgrades



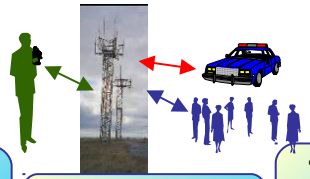
Satellite Terminals

Satellite Communications Control Systems



VSATS

Vehicle Intercom System

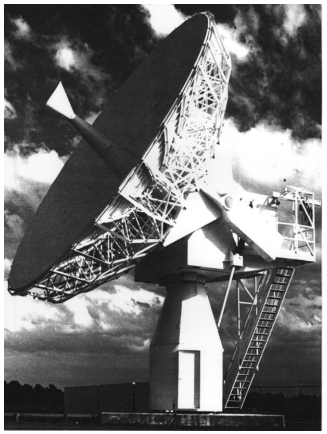


Land Mobile Radios

Terrestrial Transmission Systems

Kuwait Iraq C4 Commercialization

PM DCATS' Enterprise Earth Terminals



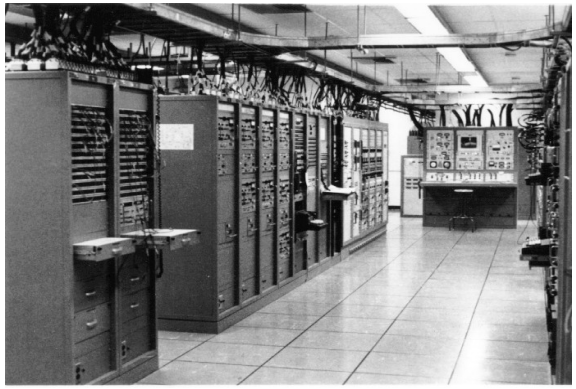
AN/FSC-78 & GSC-39
(X-Band)

AN/GSC-52
(X-Band)

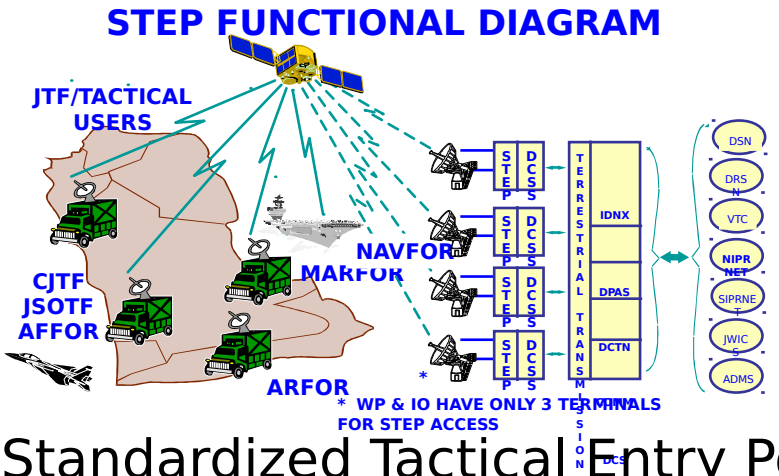
KaSTARS (Ka-Band)

Teleport (C & Ku-Band)

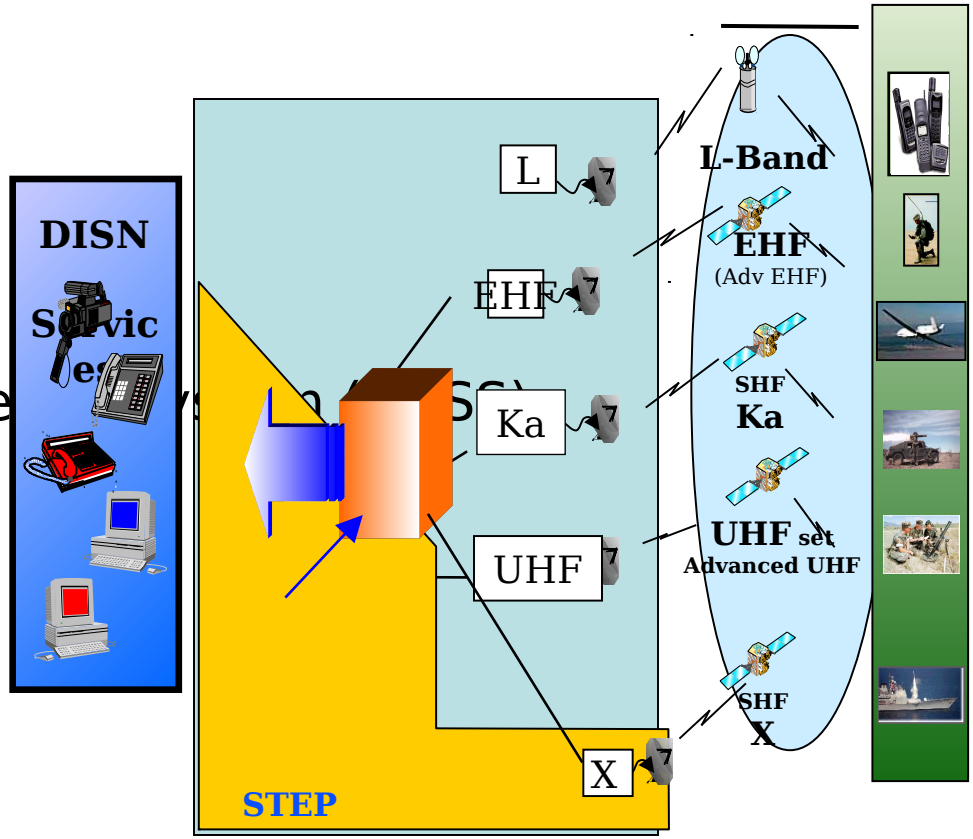
PM DCATS' Earth Terminal Baseband



Digital Communications Satellite

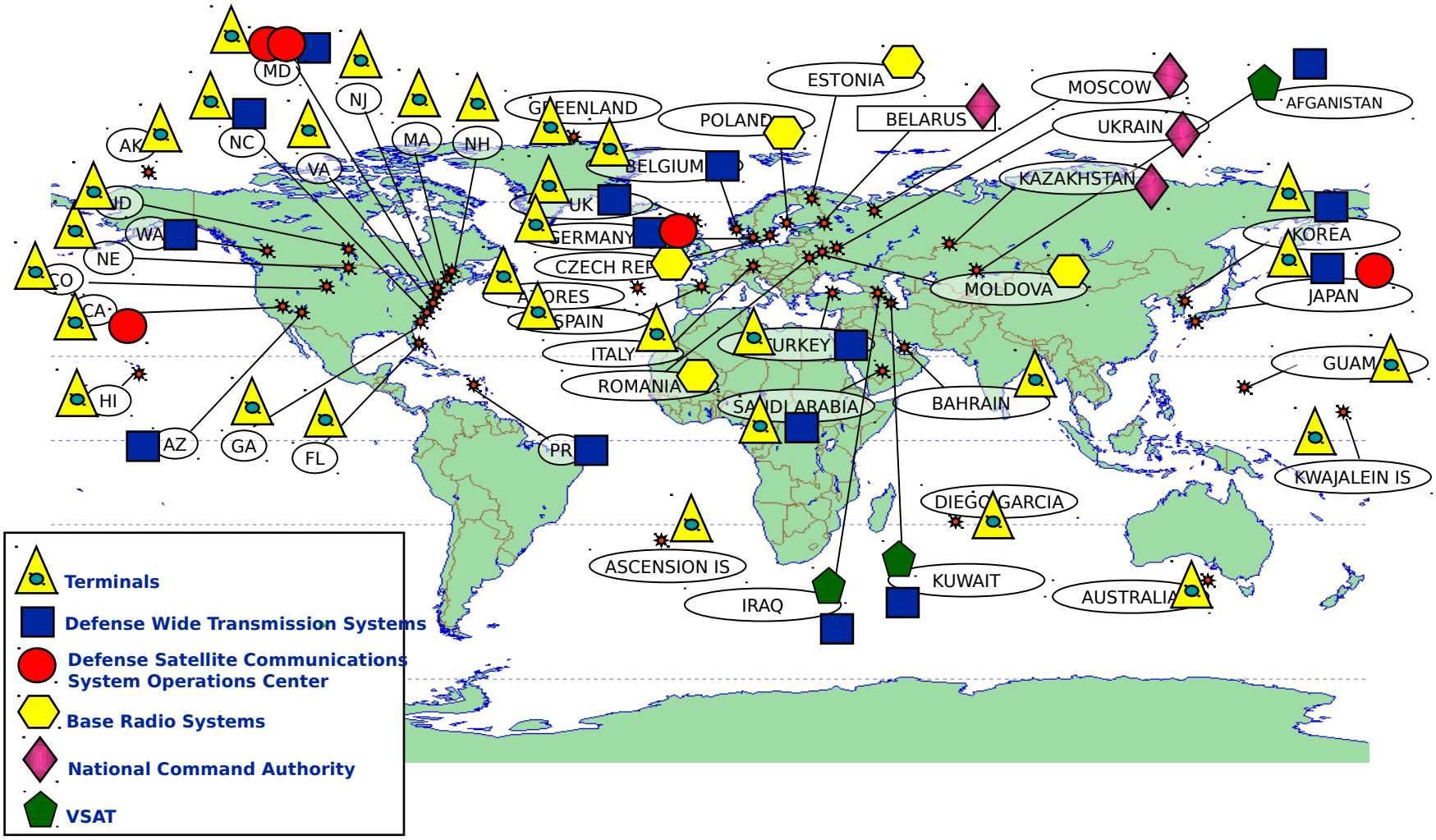


Standardized Tactical Entry Point (STEP)



Teleport Baseband

PM DCATS Worldwide Mission



Integrated infrastructure providing the Warfighter worldwide long-haul connectivity

Very Small Aperture Terminals (VSAT) Networks

CFLCC C4 & Medical

Combat Support Services SATCOM

Korea CIVN-K

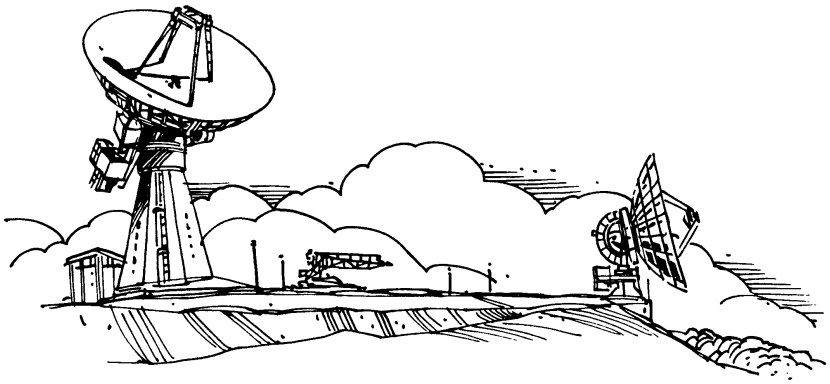
Very Small Aperture Terminal (VSAT) Networks

Surface Distribution Deployment Command

Army Field Support Command

Modernization of Enterprise Terminals (MET)

- V(1) – X/Ka Band
- V(2) – Ka/EHF Band
- Supports Internet Protocol (IP) and Dedicated Circuits
- Capable of High Speed Interconnectivity to Global Information Grid (GIG)
- Critical Reachback Capability for the Warfighter



MET Risk Mitigation Phase

- FY05 - FY08
- Low Cost Component Development and Experimentation
- Risk Mitigation Candidates
  - Simultaneous X/Ka Band
    - Antenna Feed Horn
    - Frequency Converters
    - Solid State Power Amplifiers
  - JTRS/SCA Compliance
    - Modem Waveform Developed by Joint Tactical Community
    - Ported to any SATCOM System General Purpose Processor
  - All Digital SATCOM Receiver
  - Automated Control – Minimize Need for Operator

MET Full Rate Production Phase

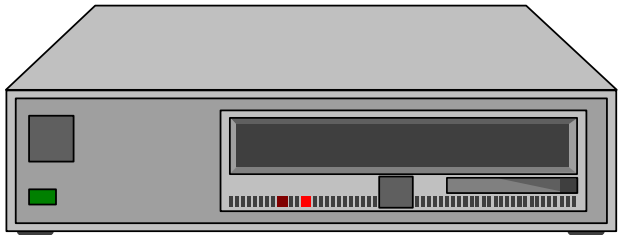
- FY09 – FY20
- V(1) X/Ka Band
  - Supports Wideband Gapfiller Satellite Constellation
  - Replace FSC-78, GSC-39, GSC-52, KaSTARS at end of life
- V(2) EHF/Ka Band
  - Teleport for Transformational Satellite Constellation
- Contract Requirements
  - Prototype
  - Test
  - Production Quantity – 79 Terminals
  - Install 8 – 10 per year
  - Spares
  - Contractor Depot

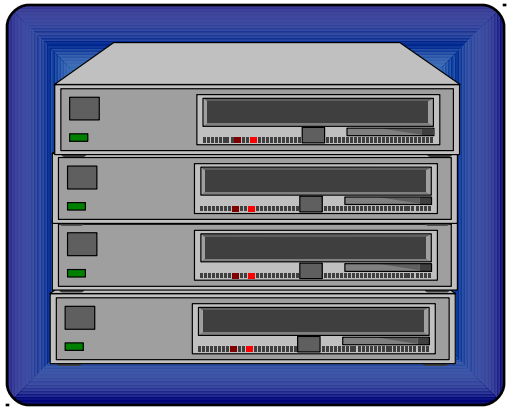
Modernization of Enterprise Terminals (MET)

- OBJECTIVE: Develop and Procure X/Ka & Ka/EHF SATCOM Earth Terminals
- CONTRACT TYPE: TBD
- Risk Mitigation Phase
  - FY05-08
  - Leverage Technology Development from Multiple Funding Sources
- Full Production Phase:
  - FY09-FY20
  - Contract Value - $100 - $300M
- TECHNICAL CONTACT: Gerald Christophe, (732) 532-1519
- ACQUISITION CONTACT: TBD
- SOLICITATION # or RFQ #: TBD

Joint Network-Centric IP Modem System (JNIMS)

- Provide Standard Internet Protocol (IP) based Bandwidth on Demand Capability for Wideband MILSATCOM
  - Efficient use of Satellite Bandwidth
  - Mesh and Hub-Spoke Topology
- Hardware to support OSD/DISA SATCOM IP Modem Standard
  - Standard appears to be DVB-RCS
  - OSD direction has not yet been published





PM DCATS Proposed Procurement Approach

- One Competitive Contract
- Initial purchase of commercial-off-the-Shelf IP Modem which has “Required” features
- Options to purchase upgrade with “Desired” and “Very Desired” features
- COTS equipment will undergo testing during Source Selection
- Winning vendor is required to document waveforms for open sourcing and standardization

Features

Required - COTS

- DoD Standard Compliant
- Ethernet Interface
- Operation in Ku band
- L-Band IF interface
- Commercial QoS

Very Desired

- GIG Compliant QoS
- Operation in Ka & X band
- Embedded AES Encryption
- Hub/Spoke and Mesh Topology

Desired

- Dynamic Coding & Modulation
- Multiple Network Management
- Dynamic Power Control

Joint Network-Centric IP Modem System (JNIMS)

- OBJECTIVE: Procure DoD Standard Compliant SATCOM IP Modem
- CONTRACT TYPE: Firm Fixed Price, with T&M
- Contract Value - $20-50M
- Major Milestones:
  - RFP Release – Sep 2005
  - Contract Award – Mar 2006
  - COTS Fielding – Sep 2006
  - Upgrade with “Desired/Very Desired” Features – Sep 2007
- TECHNICAL CONTACT: Dhaval Shah, (732) 532-8643
- ACQUISITION CONTACT: Susan Stroud, (732) 532-1109
- SOLICITATION # or RFQ #: TBD

World Wide Satellite Systems (WWSS)

- Establish a comprehensive contract vehicle
  - Competitive
  - Supports wide variety of mission requirements
  - Quick response for urgent requirements
  - Provide turn-key satellite systems and associated support services
  - Commercial hardware

- 4 Generic Terminal Types Identified
  - Type 1 - Combat Service Support (CSS) Very Small Aperture Terminal (VSAT) Satellite System
  - Type 2 - Fixed Station Satellite System
  - Type 3 - Flyaway VSAT Satellite System
  - Type 4 – Military Certified Satellite Systems

WWSS Contract Approach

- IDIQ Contract – open to any Federal Agency
- Hardware and Services
- Multiple Primes
  - Primes must be capable of producing all four terminal types
- Contract Period of Performance is 5 years: no options
- $5B ceiling for each Prime
- Delivery Orders are competed among all Primes

Jointly Managed by
EO EIS/PMDCATS & PEO C3T/PM WIN-

Type 1: CSS VSAT Terminal

- Non-classified Internet Protocol Router Network (NIPRNet)
  - Logistic and medical personnel,
  - Over commercial Ku frequency band satellites.
- Auto-acquire antenna.
- Compact, self-contained, easy to set-up and operate transit case system
  - Provides secure communications using the iDirect Netmodem II (or an equivalent).

Type 2: Fixed Station Satellite Terminal

- Single or multi-carrier worldwide operation on commercial, including C, Ku, X, and Ka frequency bands.
- Auto-acquire and auto-tracking antenna.
- Voice, data and video teleconferencing, in both non-secure and secure modes,
- Operating as a closed network or as an extension of the DoD GIG backbone.
- Operated by Government or contractor personnel.

Type 3: Fly Away VSAT Terminals

- Single or multi-carrier worldwide operation on commercial satellites, including C, Ku, X, and Ka frequency bands.
- Voice, data and video teleconferencing, in both non-secure and secure modes,
- Operates as a closed network or as an extension of the DoD GIG backbone
- Communications-On-The-Quick-Halt (COTQH)
- Operated by Government or Contractor personnel.
- Transportable by air, land or sea

Type 4: Military Certified Satellite Terminal

- DISA certified single or multi-carrier worldwide operation on commercial and military satellites
- Transit cases, mobile and fixed facility configurations.
- Voice, data and video teleconferencing, in both non-secure and secure modes;
- Operating as a closed network or as an extension of the DoD GIG backbone.
- Operated by Government and Contractor personnel.
- Transportable by air, land or sea

Services

- Operation and Maintenance
- Systems Engineering
- System and Equipment Prototyping
- Integrated Logistics Support
- Site Surveys
- Leasing of Satellite Systems and Equipment
- Technical Insertion, systems Integration and Enhancements
- Installation
- Test and Evaluation
- Certification
- Studies and Analyses
- Data Management
- Configuration Management

World Wide Satellite Systems (WWSS)

- OBJECTIVE: Multiple quick response IDIQ contracts for SATCOM equipment and services to meet urgent requirements
- CONTRACT TYPE: Firm Fixed Price
- Contract Value - $5B
- Major Milestones:
  - RFP Release – Jun 2005
  - Contract Award – Oct 2005
- TECHNICAL CONTACT: Scott Mathews, (732) 532-2339
- ACQUISITION CONTACT: John Onieal, (732)427-1589
- SOLICITATION # or RFQ #: W15P7T-05-R-L413

PEO EIS Contract Opportunities

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